BRUHAT BANGALORE MAHANAGARA PALIKE, YELAHANKA ZONE

Executive Engineeer
Byatarayanapura Division
B.B.M.P., Bangalore - 92

DRAFT TENDER SCHEDULE

Issued to :

Original / Duplicate

Name of Work: Development works for providing Drinking water facility in ward no. 07 (Byatarayanapura), Kodigehalli sub division.

Sl. No.	Approved Quantity	Description	Unit	Rates	
				In Figures	In Words
1	2	Geophysical investigation of site for sinking Borewell for supplying drinking water to the habitation either through the Hand pump, MWS of P.W.S.S by vertical electrical sounding by adopting Venner or Schlumberger's method, including reconnaissance survey of geological formation, Gerophysical investigation of existing Ground Wate in the vicinity, its quality & acceptability of the users indicating the location of site, recommended depth of casing pipe required to seal the top unconsolidated formation including an extra depth of 1.0 meter in consolidated formation for proper seating of casing pipe, depth of drilling required to cover full depth of aquifer proposed to be tapped, probable yield and other information required including transportation of instrument and accessories to work site., engaging techinical personal and labour required etc., as per Specification and direction ,with all lead and lift, loading, unloading and labour charges etc., complete and as per the directions of the Engineer-in-charge of the work	Each BW	1882.00	
2	100.00	Sinking borewell of 165 mm dia clear using super fast hydraulic rig of capacity 250 PSIG & above CFM & above in all strats including over burden upto 20 mts fixing of casing pipes, collars and cap with necessary cutting, throading and welding including transportation of rig and supporing vehicles, crew charges and cost of consumables etc., complete including yield testing at the final depth with a minimum working of compressor for one hour (excluding coat of casing pipes, collars and cap etc.,) ,with all lead and lift, loading, unloading and labour charges etc., complete and as per the directions of the Engineer-in-charge of the work 0 to 50 m	Rmtr	315.18	
	100.00	50 to 100 m	Rmtr	412.00	
	100.00	100 to 150 m	Rmtr	458.25	
	100.00	150 to 200 m	Rmtr	484.10	
	100.00	200 to 250 m	Rmtr	560.32	
	100.00	250 to 300 m	Rmtr	600.49	
3	100.00	Supply of ISI mark 175 mm nominal bore medium black ERW casing pipe of 5 mm thick black electric resistance continuous welded mild steel tube material confirming to IS 1387 / 1993 & manufactured from hot rolled steel skelp / stripes in random length of 4 to 7 mts both ends threaded confirming to IS 554 / 1985, one end fixed with a socket and the other and with a plastic protection end (including of all taxes) ,with all lead and lift, loading, unloading and labour charges etc., complete and as per the directions of the Engineer-in-charge of the work	Rmtr	1325.00	
4	36.00	Providing 250mm dia PVC Pipe 6kg/cm as per specification and direction of the Engineer in Charge of the work	Rmtr	1100.00	

	Approved Quantity	Description	Unit	Rates	
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5	2	Providing and fixing 160mm Borewell Cap with clamp Set H/D,with all lead and lift, loading, unloading and labour charges etc., complete and as per the directions of the Engineer-in-charge of the work	No.	100.00	
6	2	Supply and delivery at site brand New texmo/ innoval/ Lubi/ Sabar / Atalanta/ Calamal/ make suitable for vertical installation in 150mm dia bore well comprising of single stage or multistage CF pump close coupled by measns of stainless steel coupling to suitable HP suitable speed totally enclosed and filled with pure drinking water (Wet type) squirrel cage submersible induction motor suitable for opertation of 3PH., 50 Hz, 380/440 volts AC supply fitted with required aqccessories such as suction, casing suction strainers sand guard Non return value etc. complete . The pump and motor shall form an integral unit with all the required fittings 10.00 HP 20 stage.with all lead and lift, loading, unloading and labour charges etc., complete and as per the directions of the Engineer-in-charge of the work 12.50 HP 20 stage	No	60400.00	
7	500.00	Providing GI pipes confirming to IS specification of approved make with fittings such as collars bends elbows tees nipples plugs with cuts threads using whilte lead and threads for joints wherever necessary as per directions including all lead and lifts etc., complete (excluding ocst of fittings) 50mm dia GI pipe B class.	Rmtr	321.00	
8	83	Heavy Duty Collar 50 mm dia	Nos	130.00	
9	900.00	Supplying and drawing 3 core flat PVC sheathed submersible pump cable manufactured with electrolytic grade copper with flexible copper conductor confirming to table 3 class 5 of IS:8130-1984 and virgin grade PVC insulation and sheathed suitable for working voltage upto 1100 Volts. with all lead and lift, loading, unloading and labour charges etc., complete and as per the directions of the Engineer-in-charge of the work	Mtr	126.70	
10	83.33	Labour charges for errection of new / repaired submercib le pupset along with GI pipes (32/50mm) cable (new submercible pumpset if required will be supplied by the department free of cost and released pumpset should be handed over to department including transportation (each length = 6.0m)	No	88.00	
11	2	Supplying and fixing 20"x20"x2.5" polished wood board made of not less than 15mm thick plank on both sides with planks made out of not more than 2 pieces and fixing the same to the wall using tapered inverted wooden plugs screws etc., with all lead and lift, loading, unloading and labour charges etc., complete and as per the directions of the Engineer-in-charge of the work	No.	302.00	
12	60.00	Supplying of 1.1 KV LTUG cable having aluminium condutor PVC insulated shethed, galvnised steel strip (except 2CX10Sq.mm wire armoured) confirming to IS-3975:1990(No.of Strip indicated inGTP) & extruded PVC outer sheathed armoured cable with specified IS-1554 Part-1:1998 & confirming to GTP of GROUP-A P No.55/1 No.7.4.4.4 core 16 Sqmm.	Mtr	140.40	
13	60.00	Labour charges for laying of 1.1 K.V class UG cable in existing trench GI pipe/ stoneware pipe/on wall/on pole as required in existing trench/duct.	Mtr	10.80	

	Approved Quantity	Description	Unit	Rates	
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14	50.00	Digging or trenching of 0.6 m x 0.5 m wide refilling the trench to the required ground level and consolidating etc., complete as per Civil SR KSRB 1-2 P-7 with all lead and lift, loading, unloading and labour charges etc., complete and as per the directions of the Engineer-in-charge of the work	Mtr	85.00	
15	8.00	Supplying and fixing of Class A (meaium duty) GI pipe of wall thickness not less than 3.25mm on pole/wall/drain crossing with necessary clamping arrangements for UG cable of 1.1 KV class with all lead and lift, loading, unloading and labour charges etc., complete and as per the directions of the Engineer-in-charge of the work	Mtr	345.00	
16	2	Supplying and fixing L.T. cast Iron pot head suitable for 1.1 KV class UG cable filled with necessary bituumen/insulating compound complete with terminals, clamps, bolts, nuts and washers etc.,with all lead and lift, loading, unloading and labour charges etc., complete and as per the directions of the Engineer-in-charge of the work	No.	280.00	
17	2	Supplying, fixing, wiring, earth electrode for grounding conduits, I.C cutouts and other equipments on the meter board using 40 mm dia 2.90 mm thick GI pipe 2.5 m long buried in a pit. The pit should be filled with equal propotion of solt and charocoal 150 mm alround the pipe to complete depth. The connection from the pipe to the conduit etc., is to be established through GI wire of size, as per ISI specification 7.3.3 IS 732 using 12 mm dia bolts, nuts, washers and check nuts, etc., the pipe shall have 16 throught holes of 122 mm dia, (PWD Electrical SR-1999-2000, with all lead and lift, loading, unloading and labour charges etc., complete and as per the directions of the Engineer-in-charge of the work	No	2727.00	
18	6	Supplying and fixing of Porcelain fuse channel with cut out on existing wooden / panel using necessary nuts, bolts and washer etc.,with all lead and lift, loading, unloading and labour charges etc., complete and as per the directions of the Engineer-in-charge of the work	No.	180.00	
19	2	Providing and fixing in position **50mm** nominal bore gun metal non-return valve horizontal type of approved make including cost of all materials, labour and HOM of equipments with all leads complete as per specifications. with all lead and lift, loading, unloading and labour charges etc., complete and as per the directions of the Engineer-in-charge of the work	No	1579.40	
20	2	Providing NP/CP waste unions conforming to ISI specifications and fixing them in position as per directions including cost of materials, fixtures and conveyance to work spot etc., complete.with all lead and lift, loading, unloading and labour charges etc., complete and as per the directions of the Engineer-in-charge of the work	No	227.90	
21	8	SSupplying and fixing 50mm dia GI X nipple with ISI mark with all lead and lift loading unloading and labour etc., complete and as per the directions of the Engineer-in-charge of the work	No	104.30	
22	2	Supplying shunt capaitors conforming to IS 2834, 3phase 400/440 volts grade for power factor improvement of rotating machinery, Capacitor in KVAR rating Nos. 2KVAR capacity with all lead and lift, loading, unloading and labour charges etc., complete and as per the directions of the Engineer-in-charge of the work	No	1350.00	

	Approved Quantity	Description	Unit	Rates	
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23	2	Supplying and fixing miniature circuit breakers/solaters on existing MCB distribution boards using necessary fixing materiasl wiring complete as requireds 5 to 30 amps triple pole with all lead and lift, loading, unloading and labour charges etc., complete and as per the directions of the Engineer-in-charge of the work	No	1547.00	
24	46800.00	Fabrication supplying and mounting MS box of 16 SWG suitable for floor /wall mounting, fully weather proof with provision for better heat dissipation, provided with hinged front cover, equipped with tamper proof locking arrangements, with suitable size clamps with necessary cable entry pipe with gland and box should be finished 2 coats of red oxide primer paint and finally finished with approved colour enamelled metal paint etc., complete box of 21600 sqcm with all lead and lift, loading, unloading and labour charges etc., complete and as per the directions of the Engineer-in-charge of the work	Sq.Cm	0.33	
25	2	Supply fuly automatic star delta starter unit push button type with suitable wires, contacters, one adjustable thermal timer mounted on a common base plate held in steel enclosure for use on 400/440 volts 3 phase and wired after fixing to the existing wooden board for motor upto 12.5 HP	No.	6583.00	
26	225.00	Earthwork excavation for pipeline foundation including deporiting or bank up to a depth of 50 mtrs including shiriry and statting danger lighting and using site rails and boming poles at every 100 mtrs wherever necessary as directed in th following strructure manhole with all lead and lift, loading, unloading and labour charges etc., complete and as per the directions of the Engineer-in-charge of the work	Cum	188.00	
27	500.00	Providing and instalation at site of works P.V.C.Pipes including cost of pipes and specials and incluidng lowring into trenches, laying true to line, level and perfect linking at joints, leak proof including jointing encasing the pipe alround to a depth Not less than 15cm with grave or selected earth avalabile from the execavation with all lead and lift, loading, unloading and labour charges etc., complete and as per the directions of the Engineer-in-charge of the work 75mm Dia 6 KSC	Rmtr	157.00	
28	225.00	Refilling the basement and pipeline treanches with secleted available earthe for trench excavation including authority condition in layers from thedi including disponsary of the sunplus earth with a heavy 200 mtrs.	Cum	61.00	
29	4	Providing and fixing in position brass gate valve with C.I wheel of approved quality (screwed end) 50mm nominal bore including cost of all materials, labour and HOM of equipments with all leads complete as per specification with all lead and lift, loading, unloading and labour charges etc., complete and as per the directions of the Engineer-in-charge of the work	Each	2120.00	
		Borewell Repair Works			
31	27	Starter (with one year Guarantee) etc complete as per specifications and directions of engineer in charge of the work	No.	5050.00	
32	27	Rotor (with one year Guarantee) etc complete as per specifications and directions of engineer in charge of the work	No.	4700.00	
33	27	Upper Flange etc complete as per specifications and directions of engineer in charge of the work	No.	350.00	

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4	27	Lower Housing etc complete as per specifications and directions of engineer in charge of the work	No.	650.00	
A	27	Carbon Housing etc complete as per specifications and directions of engineer in charge of the work	No.	475.00	
B	27	Thrust bearing block assembly complete with Segment bearing pad etc complete as per specifications and directions of engineer in charge of the work	No.	1150.00	
C	27	Oil Seal etc complete as per specifications and directions of engineer in charge of the work	No.	125.00	
D	27	Oil Seal Steel Bush etc complete as per specifications and directions of engineer in charge of the work	No.	150.00	
E	405	Guide vane etc complete as per specifications and directions of engineer in charge of the work	No.	175.00	
F	405	Impeller Shell moulded with aluminium Bronze) etc complete as per specifications and directions of engineer in charge of the work	No.	425.00	
G	27	Discharge outlet (D.O) Bearing D.O Steel Bush etc complete as per specifications and directions of engineer in charge of the work	No.	445.00	
H	27	Steel Bush etc complete as per specifications and directions of engineer in charge of the work	No.	150.00	
I	27	Pump shaft made out of stainless steel Centreless ground with key way (upto 8 stages) etc complete as per specifications and directions of engineer in charge of the work	No.	950.00	
35	27	Non – return valve (NRV) assembly complete with rubber 'O' Ring etc complete as per specifications and directions of engineer in charge of the work	No.	1350.00	
36	27	Cable Guard etc complete as per specifications and directions of engineer in charge of the work	No.	150.00	
37	27	Brass Filter etc complete as per specifications and directions of engineer in charge of the work	No.	250.00	
38	27	Re-erection charges of pumping machineries including overhauling and pointing etc complete as per specifications and directions of engineer in charge of the work	Each	900.00	
39	520	Supplying and drawing 3 core flat PVC sheathed submersible pump cable manufactured with electrolytic grade copper with flexible copper conductor confirming to table 3 class 5 of IS:8130-1984 and virgin grade PVC insulation and sheathed suitable for working voltage upto 1100 Volts. P. No. 49/ I No. 29-b(1) **4 Sqm mm of 56 strands 0.3mm dia Group - A** etc complete as per specifications and directions of engineer in charge of the work	Mtr	126.70	
40		C) Replacement of pump parts: The following main components of submersible pump sets requiring replacement.			
41	1	Oil Seal	No.	125.00	
42	1	Oil Seal Steel Bush	No.	150.00	
43	15	Guide vane	No.	175.00	
44	15	Impeller Shell moulded with aluminium Bronze)	No.	425.00	
45	1	Discharge outlet (D.O) Bearing D.O Steel Bush	No.	445.00	
46	1	Steel Bush	No.	150.00	
47	1	Pump shaft made out of stainless steel Centreless ground with key way (upto 8 stages)	No.	950.00	
48	1	Non – return valve (NRV) assembly complete with rubber 'O' Ring	No.	1350.00	

	Approved Quantity	Description	Unit	Rate	
				In Figures	
49	1	Cable Guard	No.	150.00	
50	1	Brass Filter	No.	250.00	
51	1	Re-erection charges of pumping machineries including overhauling and pointing	Each	950.00	
52	900	Supply of Drinking Water through water tankers of Capacity 3000 Liters including hiring of water tankers, hiring of tractor 40HP including cost of water and engaging heavy mazdoor to deliver water from source to supply point including cost of fuel, lubricants, men and machinary, all leads and lifs, transportation, labour etc. complete.	Trips	452.00	

"DTS Approved"

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